

For: AIR-Canister

Ohio EPA DAPC, Lazarus Government Center

Columbus, OH 43215

Attn: Phillip Downey

AK Steel Middletown

Report Date:

6/29/2018

Site: Location:

Crawford Str - AKAA03

Lab Sample ID: Collection Date: 18062713-01

6/26/2018 10:20 AM

Client Sample ID:

6/28/2018 10:19:43 AM

Filter/Canister #:
Air filter vol (m3):

SN 2083

Received Date: Collector:

6/28/2018 10:19:43 AM

Air iliter voi (i

Air Type:

Mike Kramer Hamilton County

Filter Strips:

0 psi

Air Type Matrix:

Air Canisters

OH-017-AK01

Pressure: SampleType:

24 Hr Composite

Matrix Type:

Lab/Field Comment: Rush

Client Info:

<u>Analyte</u>	Result	<u>Value</u>		<u>DF</u>	<u>RL</u>	Qual	<u>Date</u>
1,1,1-Trichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1,2,2-Tetrachloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1,2-Trichloro-1,2,2- Trifluoroethane	< 0.100	0.0800	ppbv	1	0:100	U+	6/28/2018
1,1,2-Trichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1-Dichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1-Dichloroethene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,2,4-Trichlorobenzene	< 0.500	0.100	ppbv	1	0.500	U-	6/28/2018
1,2,4-Trimethylbenzene	0.110	0.110	ppbv	1	0.100		6/28/2018
1,2-Dibromoethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloro-1,1,2,2- Tetrafluoroethane	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,2-Dichlorobenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloroethane	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloropropane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,3,5-Trimethylbenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,3-Butadiene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,3-Dichlorobenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,4-Dichlorobenzene	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,4-Dioxane	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
2,2,4-Trimethylpentane	< 0.200	0.0300	ppbv	1	0.200	U-	6/28/2018
2-Butanone	< 0.500	0.310	ppbv	1	0.500	U+	6/28/2018

8955 E. Main St.

Reynoldsburg, OH 43068

(614) 644-4247

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For: AIR-Canister

Ohio EPA DAPC, Lazarus Government Center

Columbus, OH 43215

Attn: Phillip Downey

AK Steel Middletown

Report Date:

6/29/2018

10:20 AM

Site: Location: OH-017-AK01 Crawford Str - AKAA03 Lab Sample ID: **Collection Date:** 18062713-01

6/26/2018

Client Sample ID:

Filter/Canister #: Air filter vol (m3):

SN 2083

Received Date:

6/28/2018 10:19:43 AM

Collector: Air Type:

Mike Kramer Hamilton County

Filter Strips:

0 psi

Matrix:

Air Canisters

Pressure: SampleType:

24 Hr Composite

Matrix Type:

Lab/Field Comment: Rush Client Info:

	Lab/Fleid Comment: Rush							
***************************************	<u>Analyte</u>	Result	<u>Value</u>		DE	<u>RL</u>	Qual D	<u>ate</u>
·	2-Hexanone	< 0.100	0.0500	ppbv	1	0.100	U-	6/28/2018
	2-Methyl-2-propanol	< 0.500	0.0900	ppbv	1	0.500	U+	6/28/2018
	3-Chloropropene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
	4-Ethyltoluene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
	4-Methyl-2-pentanone	< 0.100	0.0300	ppbv	1	0.100	U+	6/28/2018
	Acetone	2.93	2.93	ppbv	1	2.00		6/28/2018
	Acrolein	< 0.500	0.200	ppbv	1	0.500	U+	6/28/2018
	Acrylonitrile	< 0.200	0.0200	ppbv	1	0.200	U-	6/28/2018
	Benzene	1.24	1.24	ppbv	1	0.100		6/28/2018
	Benzyl chloride	< 0.200	0.0100	ppbv	1	0.200	U-	6/28/2018
	Bromodichloromethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
	Bromoform	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
	Bromomethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
	Carbon disulfide	< 0.500	0.130	ppbv	1	0.500	U+	6/28/2018
	Carbon tetrachloride	0.100	0.100	ppbv	1	0.100	U+	6/28/2018
	Chlorobenzene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
	Chloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
	Chloroform	< 0.200	0.0200	ppbv	1	0.200	U-	6/28/2018
	Chloromethane	0.600	0.600	ppbv	1	0.100		6/28/2018
	cis-1,2-Dichloroethene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
	cis-1,3-Dichloropropene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018

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Reynoldsburg, OH 43068

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For: AIR-Canister

Ohio EPA DAPC, Lazarus Government Center

Columbus, OH 43215

Attn: Phillip Downey

AK Steel Middletown

Report Date:

6/29/2018

Site: Location: OH-017-AK01 Crawford Str - AKAA03 Lab Sample ID:

18062713-01

Collection Date:

6/26/2018

Client Sample ID: Received Date:

6/28/2018 10:19:43 AM

Filter/Canister #: Air filter vol (m3): 10:20 AM

Collector:

Mike Kramer Hamilton County

Filter Strips:

SN 2083

Air Type:

Pressure:

0 psi

Matrix:

Air Canisters

SampleType:

24 Hr Composite

Matrix Type:

Lab/Field Comment: Rush Client Info:

Analida

<u>Analyte</u>	Result	<u>Value</u>		DF	RL	Qual	<u>Date</u>
Cumene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Cyclohexane	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
Dibromochloromethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Dichlorodifluoromethane	0.470	0.470	ppbv	1	0.100		6/28/2018
Ethanol	3.85	3.85	ppbv	1	1.00		6/28/2018
Ethyl acetate	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Ethylbenzene	< 0.100	0.0300	ppbv	1	0.100	U+	6/28/2018
Hexachlorobutadiene	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
Hexane	< 0.100	0.0900	ppbv	1	0.100	U-	6/28/2018
Isopropyl alcohol	< 2.00	0.670	ppbv	1	2.00	U-	6/28/2018
Methyl methacrylate	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Methyl-butyl ether	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Methylene chloride	< 0.100	0.0800	ppbv	1	0.100	U-	6/28/2018
Naphthalene	< 0.500	0.200	ppbv	1	0.500	U-	6/28/2018
n-Butane	0.480	0.480	ppbv	1	0.100		6/28/2018
n-Heptane	< 0.100	0.0400	ppbv	1	0.100	U-	6/28/2018
n-Nonane	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
n-Pentane	0.230	0.230	ppbv	1	0.100		6/28/2018
n-Propylbenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
o-Chlorotoluene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
o-Xylene	< 0.100	0.0400	ppbv	1	0.100	U+	6/28/2018

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For: AIR-Canister

Ohio EPA DAPC, Lazarus Government Center

Columbus, OH 43215

Attn: Phillip Downey

AK Steel Middletown

Report Date:

Lab Sample ID: 18062713-01

Collection Date:

6/26/2018

10:20 AM SN 2083

6/29/2018

Filter/Canister #: Air filter vol (m3):

Filter Strips:

Pressure: 0 psi

SampleType:

24 Hr Composite

Client Info:

Collector: Air Type:

Location:

Client Sample ID:

Received Date:

Site:

Matrix: Air Canisters

OH-017-AK01

Crawford Str - AKAA03

6/28/2018 10:19:43 AM

Mike Kramer Hamilton County

Matrix Type:

Lab/Field Comment: Rush

<u>Analyte</u>	Result	<u>Value</u>		DE RL	Qual	<u>Date</u>
Propylene	0.550	0.550	ppbv	1 0.200	X	6/28/2018
Styrene	< 0.100	0.0300	ppbv	1 0.100	U+	6/28/2018
Tetrachloroethylene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Tetrahydrofuran	< 0.200	0.0700	ppbv	1 0.200	U-	6/28/2018
Toluene	0.280	0.280	ppbv	1 0.100		6/28/2018
Total m&p-xylenes	< 0.200	0.0800	ppbv	1 0.200	U+	6/28/2018
trans-1,2-Dichloroethene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
trans-1,3-Dichloropropene	< 0.200	0.00	ppbv	1 0.200	U-	6/28/2018
Trichloroethene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Trichlorofluoromethane	0.230	0.230	ppbv	1 0.200		6/28/2018
Vinyl acetate	0.200	0.200	ppbv	1 0.200	U+	6/28/2018
Vinyl bromide	< 0.200	0.00	ppbv	1 0.200	U-	6/28/2018
Vinyl chloride	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018



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Ohio EPA DAPC, Lazarus Government Center

Columbus, OH 43215

Attn: Phillip Downey

AK Steel Middletown

Report Date:

6/29/2018

Location:

Site:

OH-017-AK02 Crawford Str. - AKAA01 Lab Sample ID: **Collection Date:** 18062713-02

Filter/Canister #:

6/26/2018 EPA017619 10:45 AM

Client Sample ID:

Received Date:

6/28/2018 10:19:43 AM Mike Kramer Hamilton County

Air filter vol (m3):

Filter Strips:

Collector: Air Type: Matrix:

Air Canisters

Pressure: 0 psi

SampleType: Client Info:

24 Hr Composite

Matrix Type:

Lab/Field Comment: Rush

<u>Analyte</u>	Result	<u>Value</u>		<u>DF</u>	RL	Qual	<u>Date</u>
1,1,1-Trichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1,2,2-Tetrachloroethane	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,1,2-Trichloro-1,2,2- Trifluoroethane	< 0.100	0.0800	ppbv	1	0.100	U+	6/28/2018
1,1,2-Trichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1-Dichloroethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,1-Dichloroethene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,2,4-Trichlorobenzene	< 0.500	0.100	ppbv	1	0.500	U-	6/28/2018
1,2,4-Trimethylbenzene	0.140	0.140	ppbv	1	0.100		6/28/2018
1,2-Dibromoethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloro-1,1,2,2- Tetrafluoroethane	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,2-Dichlorobenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloroethane	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,2-Dichloropropane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,3,5-Trimethylbenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,3-Butadiene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
1,3-Dichlorobenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
1,4-Dichlorobenzene	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
1,4-Dioxane	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
2,2,4-Trimethylpentane	< 0.200	0.0200	ppbv	1	0.200	U-	6/28/2018
2-Butanone	< 0.500	0.340	ppbv	1	0.500	U+	6/28/2018

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For: AIR-Canister

Ohio EPA DAPC, Lazarus Government Center

Columbus, OH 43215

Attn: Phillip Downey

AK Steel Middletown

Report Date:

6/29/2018

10:45 AM

Site: Location: OH-017-AK02

Lab Sample ID:

18062713-02

Crawford Str. - AKAA01

Collection Date:

6/26/2018

Client Sample ID:

6/28/2018 10:19:43 AM

Filter/Canister #:

EPA017619

Received Date:

Mike Kramer Hamilton County

Air filter vol (m3):

Filter Strips:

Collector: Air Type:

Pressure: SampleType: 0 psi

Matrix:

Air Canisters

Client Info:

24 Hr Composite

Matrix Type:

Lab/Field Comment: Rush

<u>Analyte</u>	Result	<u>Value</u>		DF	RL	Qual	<u>Date</u>
2-Hexanone	< 0.100	0.0300	ppbv	1	0.100	U-	6/28/2018
2-Methyl-2-propanol	< 0.500	0.0500	ppbv	1	0.500	U-	6/28/2018
3-Chloropropene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
4-Ethyltoluene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
4-Methyl-2-pentanone	< 0.100	0.0200	ppbv	1	0.100	U-	6/28/2018
Acetone	4.15	4.15	ppbv	1	2.00		6/28/2018
Acrolein	< 0.500	0.260	ppbv	1	0.500	U+	6/28/2018
Acrylonitrile	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
Benzene	0.150	0.150	ppbv	1	0.100		6/28/2018
Benzyl chloride	< 0.200	0.00	ppbv	1	0.200	U-	6/28/2018
Bromodichloromethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Bromoform	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Bromomethane	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
Carbon disulfide	< 0.500	0.0200	ppbv	1	0.500	U-	6/28/2018
Carbon tetrachloride	0.110	0.110	ppbv	1	0.100		6/28/2018
Chlorobenzene	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
Chloroethane	< 0.100	0.0100	ppbv	1	0.100	U-	6/28/2018
Chloroform	< 0.200	0.0300	ppbv	1	0.200	U-	6/28/2018
Chloromethane	0.940	0.940	ppbv	1	0.100		6/28/2018
cis-1,2-Dichloroethene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018
cis-1,3-Dichloropropene	< 0.100	0.00	ppbv	1	0.100	U-	6/28/2018

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Reynoldsburg, OH 43068

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For: AIR-Canister

Ohio EPA DAPC, Lazarus Government Center

Columbus, OH 43215

Attn: Phillip Downey

AK Steel Middletown

Report Date:

6/29/2018

Site: Location: OH-017-AK02 Crawford Str. - AKAA01

Mike Kramer Hamilton County

Lab Sample ID: **Collection Date:** 18062713-02

6/26/2018 10:45 AM

Client Sample ID: Received Date:

6/28/2018 10:19:43 AM

Filter/Canister #:

EPA017619

Air filter vol (m3):

Filter Strips:

Pressure: 0 psi

SampleType:

24 Hr Composite

Collector: Air Type:

Matrix: Air Canisters

Client Info:

Matrix Type:

Lab/Field Comment: Rush

<u>Analyte</u>	Result	<u>Value</u>		<u>DF</u>	RL	Qual	<u>Date</u>
Cumene	< 0.100	0.0100	ppbv	1 (0.100	U-	6/28/2018
Cyclohexane	< 0.100	0.0400	ppbv	1 (0.100	U-	6/28/2018
Dibromochloromethane	< 0.100	0.00	ppbv	1 (0.100	U-	6/28/2018
Dichlorodifluoromethane	0.470	0.470	ppbv	1 (0.100		6/28/2018
Ethanol	1.82	1.82	ppbv	1 1	1.00		6/28/2018
Ethyl acetate	< 0.100	0.00	ppbv	1 (0.100	U-	6/28/2018
Ethylbenzene	< 0.100	0.0200	ppbv	1 (0.100	U+	6/28/2018
Hexachlorobutadiene	< 0.200	0.00	ppbv	1 (0.200	U-	6/28/2018
Hexane	0.100	0.100	ppbv	1 (0.100	U+	6/28/2018
Isopropyl alcohol	< 2.00	0.510	ppbv	1 2	2.00	U-	6/28/2018
Methyl methacrylate	< 0.100	0.00	ppbv	1 (0.100	U-	6/28/2018
Methyl-butyl ether	< 0.100	0.00	ppbv	1 (0.100	U-	6/28/2018
Methylene chloride	< 0.100	0.0900	ppbv	1 (0.100	U-	6/28/2018
Naphthalene	< 0.500	0.170	ppbv	1 (0.500	U-	6/28/2018
n-Butane	0.830	0.830	ppbv	1 (0.100		6/28/2018
n-Heptane	< 0.100	0.0300	ppbv	1 (0.100	U-	6/28/2018
n-Nonane	< 0.100	0.0200	ppbv	1 (0.100	U-	6/28/2018
n-Pentane	0.280	0.280	ppbv	1 (0.100		6/28/2018
n-Propylbenzene	< 0.100	0.0100	ppbv	1 (0.100	U-	6/28/2018
o-Chlorotoluene	< 0.100	0.00	ppbv	1 (0.100	U-	6/28/2018
o-Xylene	< 0.100	0.0300	ppbv	1 (0.100	U+	6/28/2018

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Reynoldsburg, OH 43068

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For: AIR-Canister

Ohio EPA DAPC, Lazarus Government Center

Columbus, OH 43215

Attn: Phillip Downey

AK Steel Middletown

Report Date: 6/29/2018

Site: OH-017-AK02

Location: Crawford Str. - AKAA01

Client Sample ID:

Received Date: 6/28/2018 10:19:43 AM

Collector: Mike Kramer Hamilton County

Air Type:

Matrix: Air Canisters

Matrix Type:

Lab/Field Comment: Rush

Lab Sample ID: 18062713-02

Collection Date: 6/26/2018 10:45

Filter/Canister #: EPA017619

Air filter vol (m3):

Filter Strips:

Pressure: 0 psi

SampleType: 24 Hr Composite

Client Info:

Analyte	Result	<u>Value</u>		DF RL	Qual	<u>Date</u>
Propylene	0.750	0.750	ppbv	1 0.200	X	6/28/2018
Styrene	< 0.100	0.0100	ppbv	1 0.100	U-	6/28/2018
Tetrachloroethylene	< 0.100	0.0200	ppbv	1 0.100	U-	6/28/2018
Tetrahydrofuran	< 0.200	0.00	ppbv	1 0.200	U-	6/28/2018
Toluene	0.140	0.140	ppbv	1 0.100		6/28/2018
Total m&p-xylenes	< 0.200	0.0500	ppbv	1 0.200	U+	6/28/2018
trans-1,2-Dichloroethene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
trans-1,3-Dichloropropene	< 0.200	0.00	ppbv	1 0.200	U-	6/28/2018
Trichloroethene	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018
Trichlorofluoromethane	0.230	0.230	ppbv	1 0.200		6/28/2018
Vinyl acetate	0.230	0.230	ppbv	1 0.200		6/28/2018
Vinyl bromide	< 0.200	0.00	ppbv	1 0.200	U-	6/28/2018
Vinyl chloride	< 0.100	0.00	ppbv	1 0.100	U-	6/28/2018

NA = not analyzed